	Application No.	Applicant(s)
Supplemental ***Notice of Allowability***	10/675,872	DEWITT ET AL.
	Examiner	Art Unit
	TED T. VO	2191

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Claims filed on 10/15/07, and the notice of allowance on 1/02/08*.

2. ☒ The allowed claim(s) is/are *1, 3, 4, 8, 10, 11*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

        a) ☐ All   b) ☐ Some*   c) ☐ None of the:

            1. ☐ Certified copies of the priority documents have been received.

            2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

            3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

      * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20080221* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

/Ted T. Vo/
Primary Examiner, Art Unit 2191

EXAMINER'S AMENDMENT

1.   This action is a supplemental notice of allowance that is further amending the claims filed on

10/15/2007 in the manner as discussed in the Interview on 21/02/2008 and the Amendment under 37 C F

R 1.312 on 01/09/2008.

2.   Because the examiner' amendment is provided, the **Amendment under 37 CFR 1.312 filed on**

01/09/2008 is not entered.

3.   An examiner's amendment to the record appears below. Should the changes and/or additions be

unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

        Authorization for this examiner's amendment was given in a telephone interview with Gerald

Glenzman, Reg. No. 25,035 on 02/21/2008.

4.   In the claim listing filed on 10/15/2007, please amend as follows:

Claim 1. (Currently Amended) A method in a data processing system for monitoring
execution of instructions, the method comprising:

        identifying an instruction for execution;

        determining whether the instruction is within a contiguous range of instructions by
comparing an address of the instruction to a set of addresses in a set of registers in a
processor to determine whether the instruction is in the contiguous range of instructions,
setting the set of registers using a performance tool;

        responsive to determining that the instruction is within a contiguous range of
instructions, counting at least one of a number of times the contiguous range of
instructions is entered during execution of a program and a number of times the
instruction has been executed; and

        providing a result of the counting.

Claim 2. (Canceled)

Claim 3. (Previously presented) The method of claim 1, wherein the counting step
comprises:

        sending a signal from an instruction cache to a performance monitor unit; and

        the performance monitor unit tracking the counting.

Claim 4. (Previously presented) The method of claim 1, wherein the contiguous range of instructions comprises one contiguous range of instructions, and further comprising:

determining whether the instruction is within another contiguous range of instructions; and

responsive to determining that the instruction is within the another contiguous range of instructions, counting at least one of a number of times the another contiguous range of instructions is entered during execution of the program and a number of times the instruction has been executed.

Claim 5. (Canceled)

Claim 6. (Canceled)

Claim 7. (Canceled)

Claim 8. (Currently Amended) A method in a data processing system for monitoring access to data in memory locations, the method comprising:

identifying an access to data in a memory location;

determining whether the memory location is within a contiguous range of memory locations by comparing an address of the instruction to a set of addresses in a set of registers in a processor to determine whether the instruction is in the contiguous range of instructions, setting the set of registers using a performance tool;

responsive to determining that the memory location is within a contiguous range of memory locations, counting at least one of a number of times the contiguous range of

memory locations is accessed during execution of a program and a number of times the memory location has been accessed; and

 providing a result of the counting.

Claim 9. (Canceled)

Claim 10. (Previously presented) The method of claim 8, wherein the counting step comprises:

 sending a signal from a data cache to a performance monitor unit; and

 the performance monitoring unit tracking the counting.

Claim 11. (Previously presented) The method of claim 8, wherein the contiguous range of memory locations comprises one contiguous range of memory locations, and further comprising:

 determining whether the memory location is within another contiguous range of memory locations; and

 responsive to determining that the memory location is within the another contiguous range of memory locations, counting at least one of a number of times the another contiguous range of memory locations is accessed during execution of the program and a number of times the memory location has been accessed.

Claims 12-25. (Canceled)

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Reasons for Allowance

5.   Claims 1, 3, 4, 8, 10, 11 are allowed as noted in the previous Notice of Allowance, mailed on

01/02/08.

6.   Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Ted T. Vo whose telephone number is (571) 272-3706. The examiner can normally be

reached on 8:00AM to 4:30PM.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei

Y. Zhen can be reached on (571) 272-3708.

        The facsimile number for the organization where this application or proceeding is assigned is the

Central Facsimile number **571-273-8300**.

        Any inquiry of a general nature or relating to the status of this application should be directed to

the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of an application may

be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status information for

unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

        TTV
        February 21, 2008   /Ted T. Vo/
                                          Primary Examiner, Art Unit 2191